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a first reactor connected to the electrolyzer to receive hydrogen from the electrolyzer and to react the hydrogen with carbon dioxide to form methanol;
a storage unit connected to the first reactor for storing of said methanol;
a second reactor connected to said storage unit to receive the methanol from the storage unit and to convert the methanol back into hydrogen and carbon dioxide; and
means for recycling the carbon dioxide produced in the second reactor to the first reactor.

35. (New) The system of claim 31, wherein the first reactor is connected to a further source of carbon dioxide in addition to the recycling means.

36. (New) The system of claim 31, further comprising: a generator for receiving the hydrogen from the second reactor and generating electricity using said hydrogen.

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37. (New) The system of claim 36, wherein the generator is a fuel cell.

38. (New) The system of claim 31, wherein the second reactor is a steam reformer.

39. (New) The system of claim 31, further comprising: a second storage unit for storing the carbon dioxide produced in the second reactor.

40. (New) The system of claim 31, further comprising: an internal combustion engine, wherein said second reactor provides hydrogen to an internal combustion engine.

IN THE DRAWINGS

Applicant proposes to amend Figures 1 and 4 as indicated on the marked-up copies of the drawings as originally filed. Of these changes are approved by the Examiner, then formal drawings incorporating these changes will be filed.